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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/519,551	03/06/2000	Jozeph W. Triepels	PHN 17, 326	8962

7590 11/19/2002

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EXAMINER

ABDULSELAM, ABBAS I

ART UNIT

PAPER NUMBER

2674

DATE MAILED: 11/19/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

HC

Office Action Summary	Application No.	Applicant(s)
	09/519,551	TRIEPELS ET AL.
	Examiner	Art Unit
	Abbas I Abdulselam	2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 05 September 2002.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-10 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-10 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.

4) Interview Summary (PTO-413) Paper No(s) _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____.

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on 09/05/02 have been fully considered but they are not persuasive.

Applicant argues that Gofuku (USPN 5973761) does not disclose a laminar substrate having opposed sides which are both provided with electrically conducting pattern. However, as shown in the art rejection below, Gofuku teaches at least one substrate with laminar structure including an electrode, an electrical property, control layer and an alignment control layer. In addition Gofuku teaches substrates (101, 102) with laminar structures that are disposed opposite to each other. See col. 2, lines 40 -47 and Fig 1.

Claim Rejections 35 U.S.C. 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda et al. (USPN 5838400) in view of Gofuku et al. (USPN 5973761).

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Regarding claim 1 ,Ueda teaches a display device with first and second substrates connected electrically with the ground pad of common metallic shield. Ueda teaches A first substrate which is made of multilayered flexible pad pattern via holes for electric connection; and a surface conductor layer. Ueda also teaches a second substrate which also consists a surface conductor layer as well; and has electrical connection through holes. See column 5, lines 9-24. Furthermore, Ueda teaches an interface substrate that can be connected in a reliable way even if the number of pixels increase. See column 20, lines 1-4. Ueda does not teach laminar substrate with electrically conducting patterns on opposite sides. Gofuku on the other hand teaches a liquid crystal device whose formation include one substrate with laminar structure and an electrical property control layer.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify Ueda's LCD device to include Gofuku's laminar substrate configured with an electrical property control layer. One would have been motivated in view of the suggestion in Gofuku that a laminar substrate with electrical property layer is equivalent to the desired laminar substrate with electrical conducting patterns. The use of laminar substrate helps form a liquid crystal device as taught by Gofuku.

Regarding claim 2, Ueda teaches shield casins metal frame. Ueda also teaches electronic parts related to shield casins mounted in a flexible substrates the portion of which is composed of conductor. See column 4, lines 41-44.

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Regarding claim 3, Ueda teaches a conductor layer L3 which is gold plated. See column 14, lines 57-59.

Regarding claims 4-5, and 8, Ueda teaches that a multi layer flexible substrate has its portion made of conductor layers which is electrically connected with insulating substrate through conductive film. See column 4, lines 24-30.

Regarding claim 6, Ueda teaches a display device with flexible substrate. See column 4, lines 5-14.

Regarding claim 7, Ueda teaches the wiring substrate which is made of multilayered flexible substrate producing increased wiring density and increases pattern of conductor. See column 6, lines 34-45.

Regarding claim 9, Ueda teaches applying a voltage to common transparent pixel electrode relative to configuration of substrate (sub 1) and (substrate sub 2). See column 16, lines 49-56.

Regarding claim 10, Ueda teaches liquid crystal display device with thin film. See column 1, lines 29-43

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Conclusion

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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4. Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abdulselam** whose telephone number is **(703) 305-8591**. The examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard Hjerpe**, can be reached at **(703) 305-4709**.

Any response to this action should be mailed to:

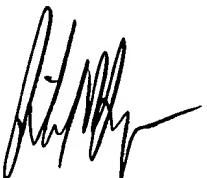
Commissioner of patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 customer Service office whose telephone number is **(703) 306-0377**.



Abbas Abdulselam
Examiner
RICHARD HJERPE
SUPERVISORY PATENT EXAMINER Art Unit 2674
TECHNOLOGY CENTER 2600